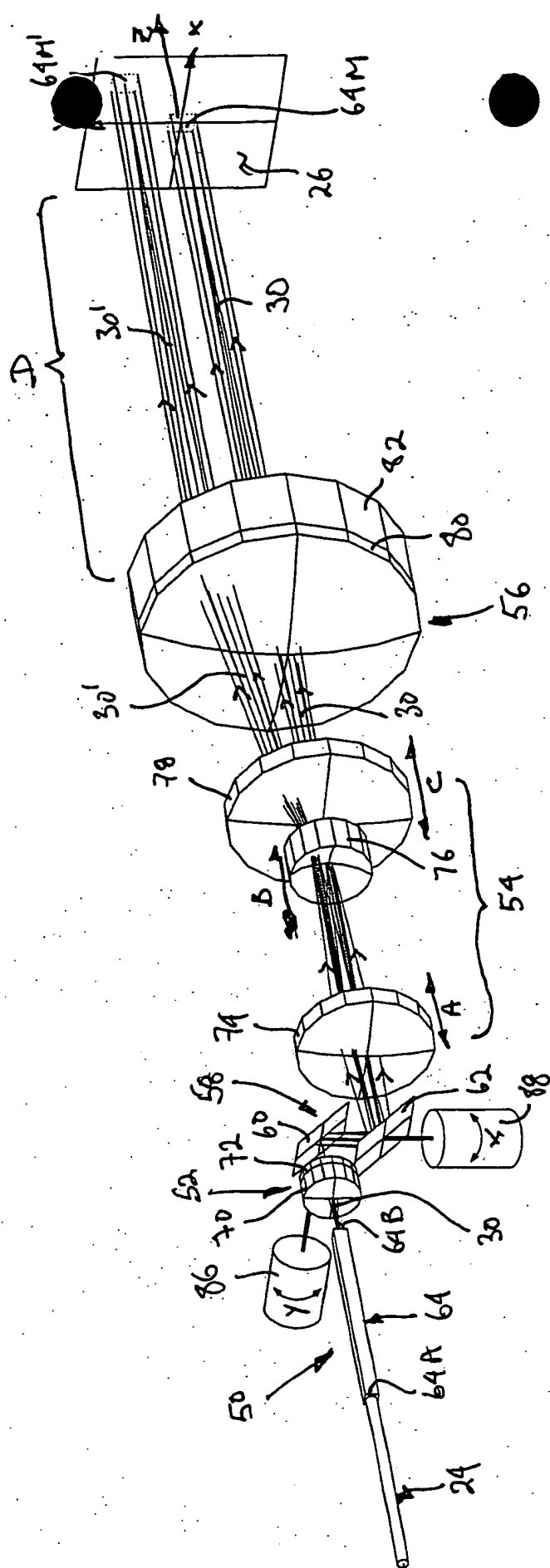


[illegible]

F16.3 40

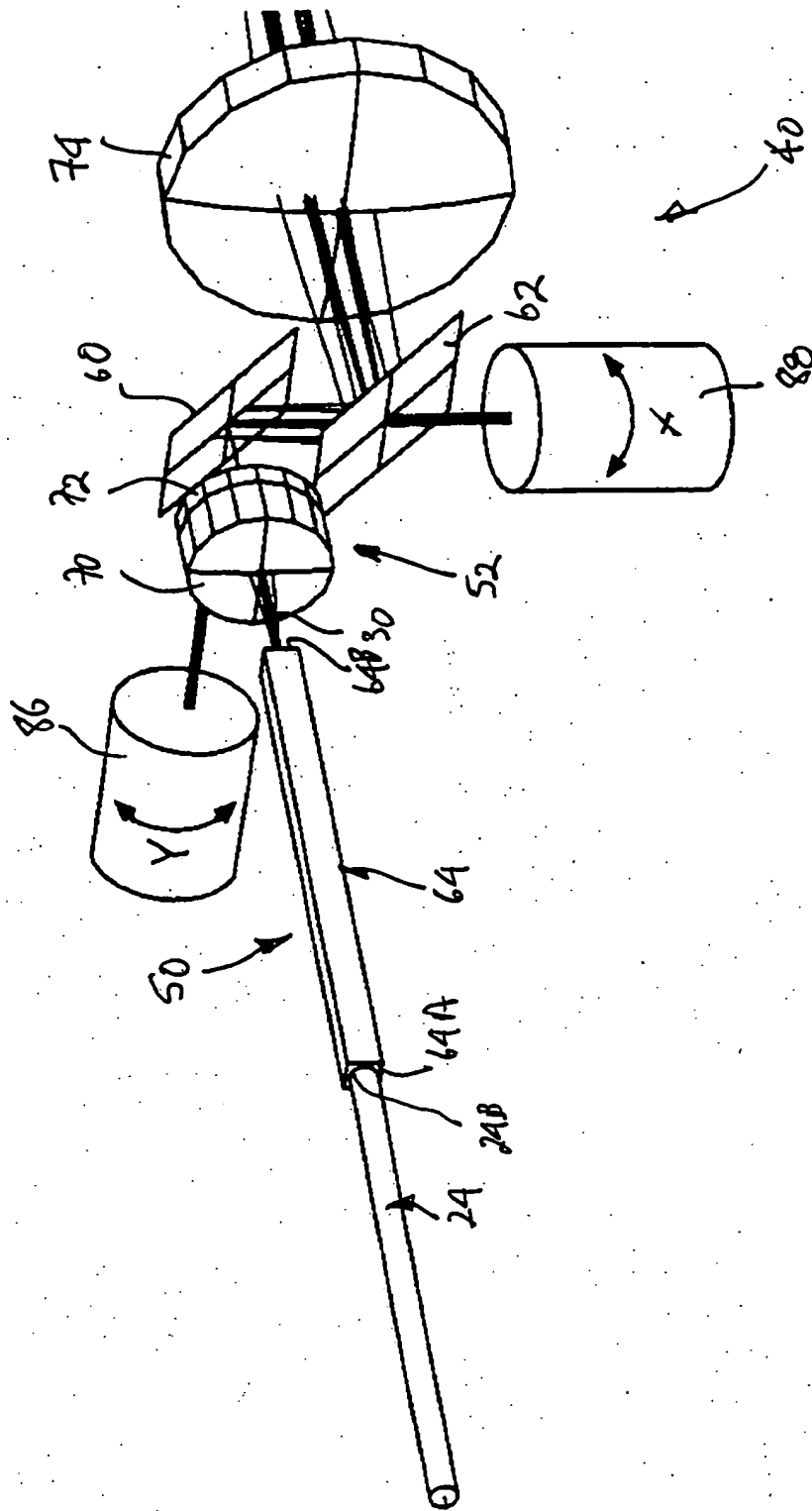
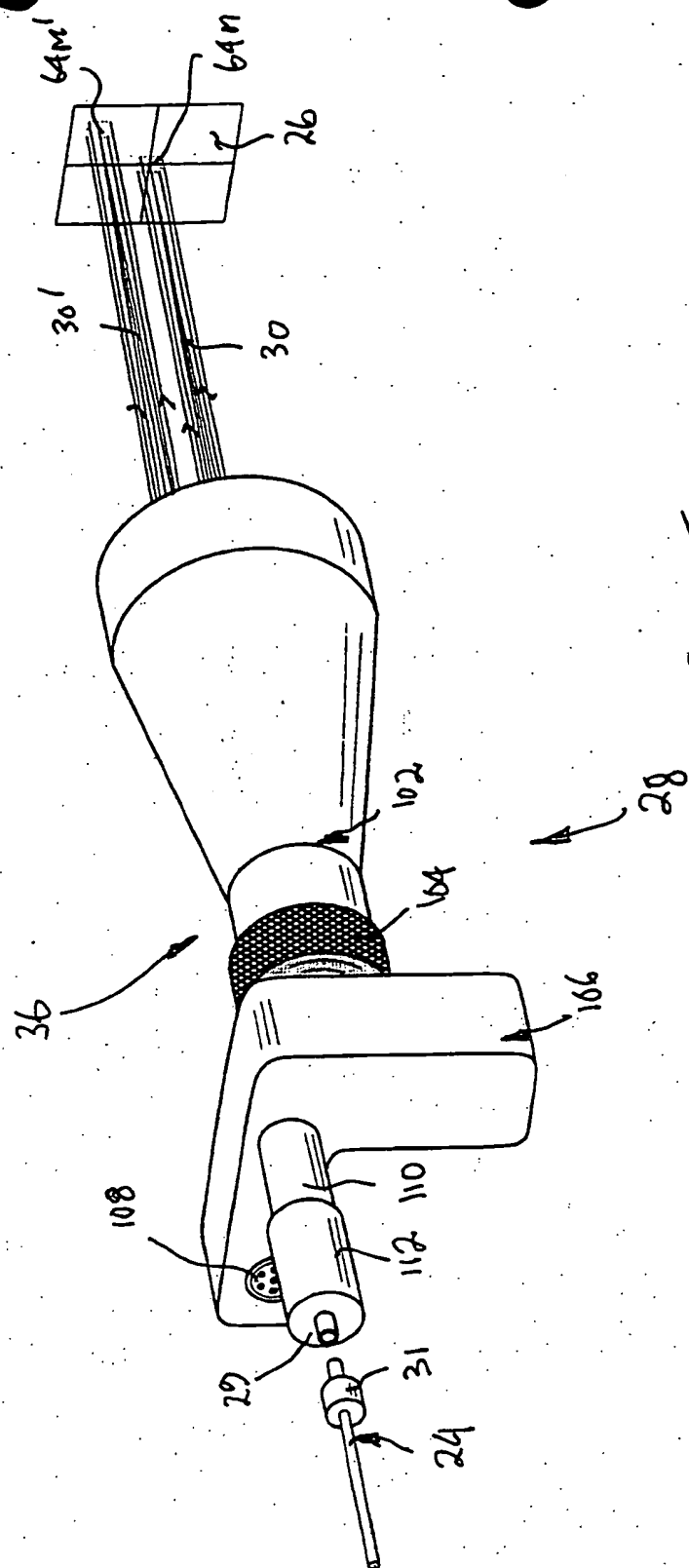


FIG. 4



Year	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100
1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	

Year	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100
1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	

**FIG. 6B**

Spot (64M) (mm)	T1 (mm)	T2 (mm)	T3 (mm)	T4 (mm)
6	5.27	30.33	2.73	23.81
4	12.61	25.48	4.00	20.05
2	37.58	17.77	5.79	1.00

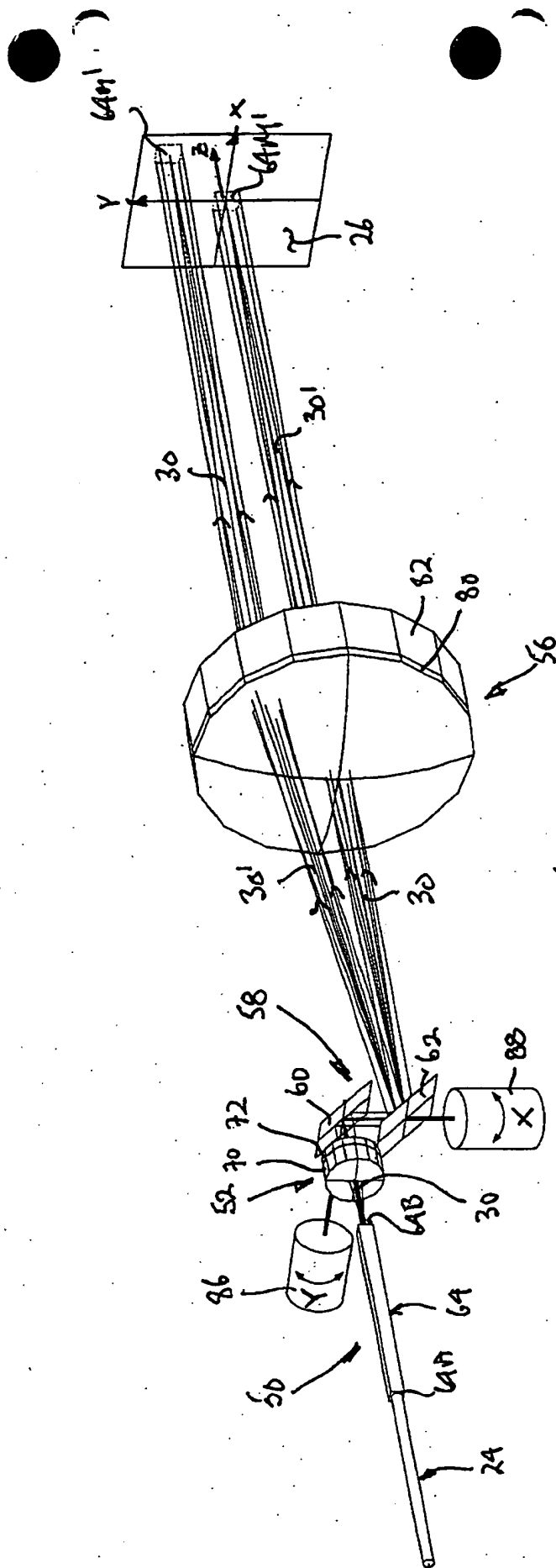
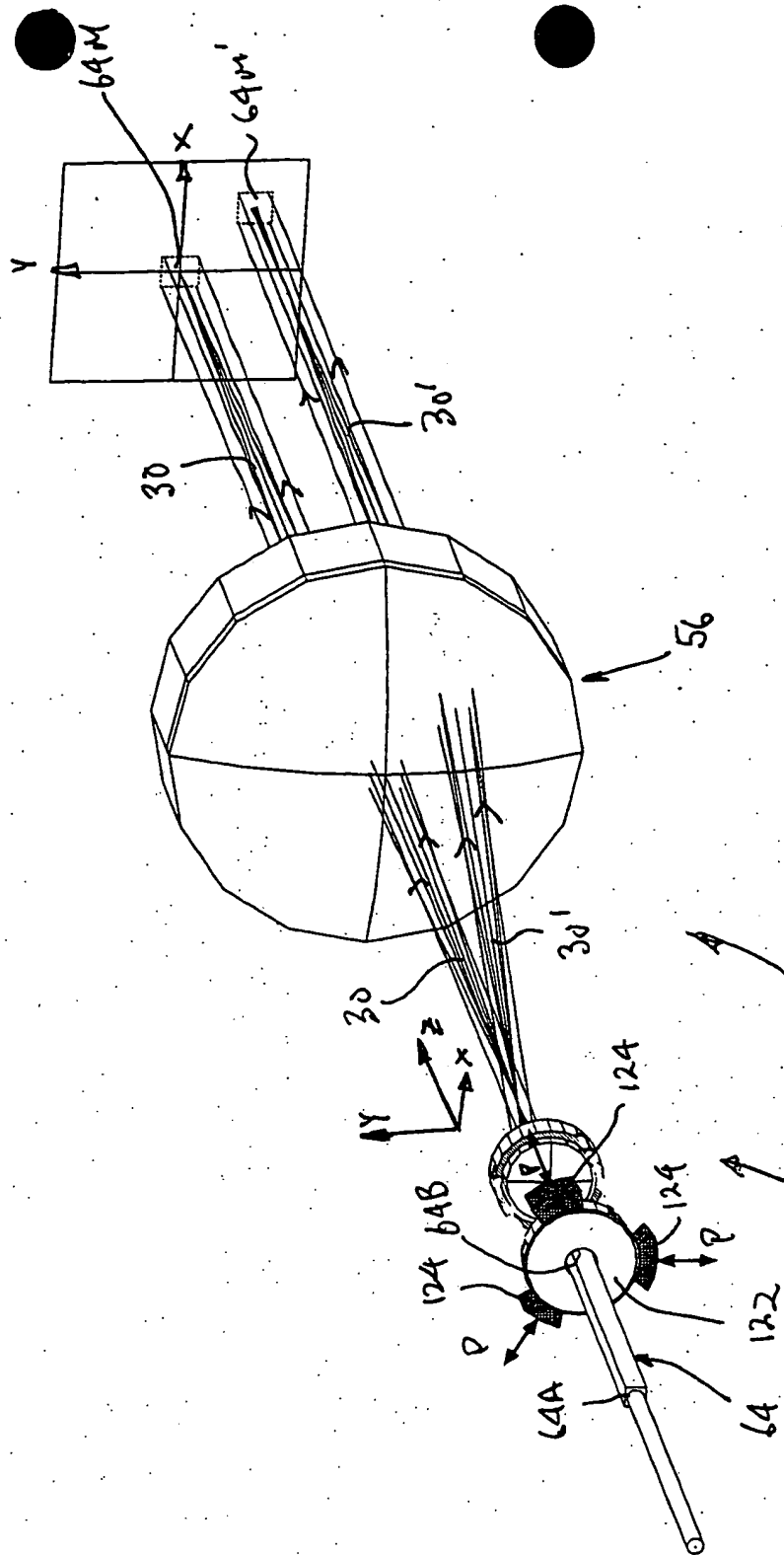


FIG. 7



**FIG. 9**

Group	Element	Surface	Radius (mm)	Thickness (mm)	Glass
Fiber 24	24B	S0		0.05	Air
Guide 64	64A 64B	S1		50.00	LF5
		S2		7.20	Air
Group 52	70	S3	41.01	1.03	SF10
		S4	4.35	3.06	BAFN10
	72	S5	-6.98	66.0	Air
Group 56	80	S14	32.60	8.4	BAFN10
		S15	-31.81	2.99	SF10
	82	S16	-799.64	75.0	Air
Treatment	26	S17			

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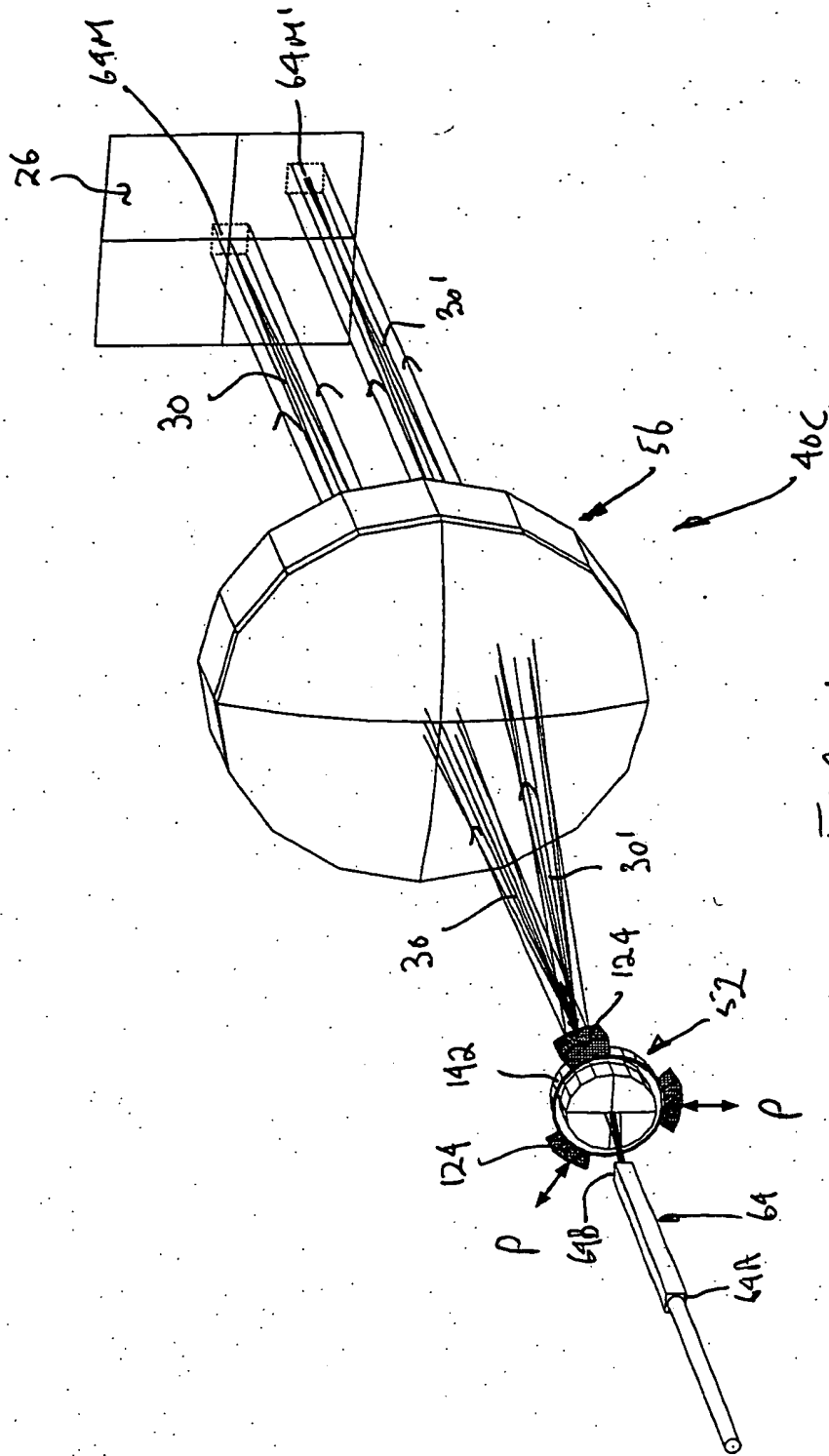


FIG. 10

FIG. 11

Group	Element	Surface	Radius (mm)	Thickness (mm)	Glass
Fiber 24	24B	S0		0.05	Air
Guide 64	64A	S1		50.00	LF5
	64B	S2		7.20	Air
Group 52	70	S3	41.01	1.03	SF10
		S4	4.35	3.06	BAFN10
	72	S5	-6.98	61.35	Air
Group 56	80	S14	32.60	8.4	BAFN10
		S15	-31.81	2.99	SF10
	82	S16	-799.64	75.0	Air
Treatment	26	S17			

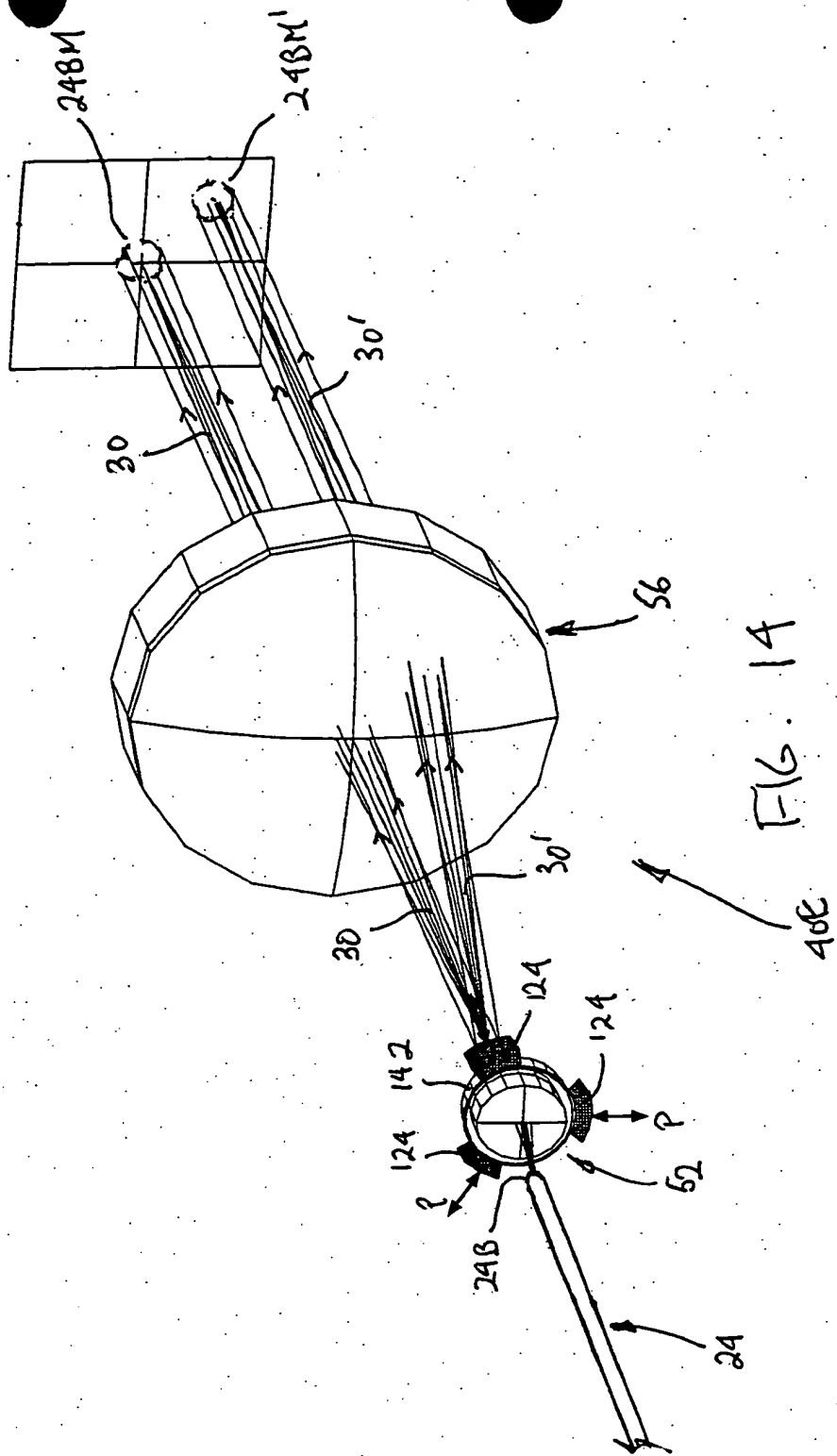
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1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	



FIG. 13

Group	Element	Surface	Radius (mm)	Thickness (mm)	Glass
Fiber 24	24B	S0		0.05	Air
Guide 64	64A 64B	S1		50.00	LF5
		S2		7.20	Air
Group 160	162	S3	18.25	1.03	FD10
		S4	3.09	3.72	BAFN10
		S5	-5.56	6.96	Air
	164	S6	5.56	3.72	BAFN10
		S7	-3.09	1.03	FD10
		S8	-5.56	35.60	Air
Group 52	70	S9	41.01	1.03	SF10
		S10	4.35	3.06	BAFN10
	72	S11	-6.98	61.35	Air
Group 56	80	S12	32.60	8.4	BAFN10
		S13	-31.81	2.99	SF10
	82	S14	-799.64	75.0	Air
Treatment	26	S15			

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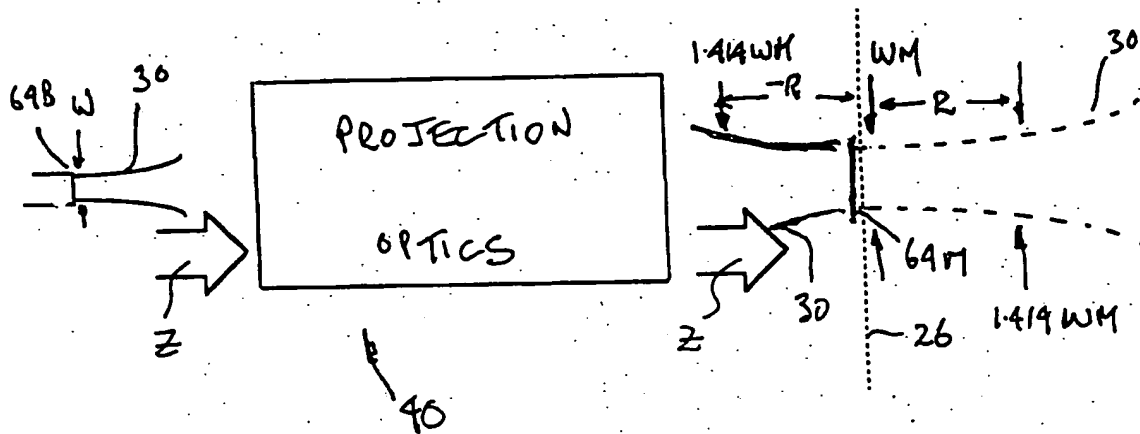


FIG. 15